A QUERY OPTIMIZATION TECHNIQUE FOR

OBTAINING IMPROVED CARDINALITY ESTIMATES

USING STATISTICS ON AUTOMATIC SUMMARY TABLES

ABSTRACT

5   A technique for optimizing execution of a query that accesses data stored on a data store

connected to a computer. Statistics on one or more automatic summary tables are used to determine an

optimal query execution plan for the query. In particular, improved cardinality estimates are generated

for one or more query execution plans for the query using statistics of one or more automatic summary

tables that vertically overlap the query. These cardinality estimates are used to make more accurate cost

10   estimates, thus improving the likelihood of determining the optimal query execution plan.